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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,575	12/29/2000	James Hermerding	042390.P9249	1629
8791	7590 08/04/2005		EXAM	INER
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD			YANCHUS III, PAUL B	
SEVENTH FLOOR			ART UNIT	PAPER NUMBER
LOS ANGE	LES, CA 90025-1030		2116	
			DATE MAILED: 08/04/2004	ς

Please find below and/or attached an Office communication concerning this application or proceeding.

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)	Application No.	Applicant(s)				
-	09/752,575	HERMERDING ET AL.				
Office Action Summary	Examiner	Art Unit				
	Paul B. Yanchus	2116				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicated. If the period for reply specified above is less than thirty (30) daysed in 100 period for reply is specified above, the maximum statutory is a reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a lion.  s, a reply within the statutory minimum of thi period will apply and will expire SIX (6) MO y statute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
·— ·	Responsive to communication(s) filed on <u>18 May 2005</u> .					
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Neterences Cited (*10-032)  Notice of Draftsperson's Patent Drawing Review (PTO-93)  Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	Paper No	o(s)/Mail Date Informal Patent Application (PTO-152)				
S. Patent and Trademark Office						

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#### **DETAILED ACTION**

This final office action is in response to amendments filed on 5/18/05.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matoba, US Patent no. 5,913,068, in view of Bealkowski et al., US Patent no. 6,378,027 [Bealkowski].

Regarding claim 1, Matoba discloses a method of managing power in a computer system, comprising:

operating the computer system at a first CPU [CPU #3 is operational until parallel degree switching control software determining that it is to be stopped, column 7, lines 29-41];

receiving a first signal generated by a thermal sensor within the first CPU [column 3, lines 36-42, column 5, lines 53-60 and column 7, lines 13-20]; and

resuming operation of the computer system at a second CPU [CPU #0 is selected to take over the process performed by CPU #3, column 8, lines 12-27].

Matoba does not disclose that the operating system controls the selecting a second CPU to receive a workload of the first CPU. Matoba instead discloses that a software application [parallel degree switching control software] controls the selecting a second CPU to receive a

workload of the first CPU. Bealkowski discloses an operating system which controls selecting of a first processor to operate a system and selecting of second processor to operate the system when the first processor is in an abnormal operating condition [column 4, lines 5-16 and 66-67 and column 5, lines 1-4]. It would have been obvious to one of ordinary skill in the art to modify the Matoba method to enable the operating system, instead of a software application, to control the selecting of a second CPU to receive a workload of the first CPU in order to simplify the system by eliminating the need for a separate software application to execute concurrently with the operating system.

Regarding claims 2 and 3, Matoba further discloses determining which CPU has least recently taken over the process [column 8, lines 12-17].

Regarding claim 4, Matoba further discloses that the method may be carried on a system with a four CPU configuration and with as many as three CPU's being disabled at one time [column 3, lines 30-41 and column 6, lines 45-50].

Regarding claim 5, Matoba discloses a computer system comprising:

a first central processing unit (CPU) [CPU #3 is operational until parallel degree switching control software determining that it is to be stopped, column 7, lines 29-41]; and

a second CPU, wherein the operation of the computer system is transferred from the first CPU to the second CPU upon the first CPU reaching a predetermined power threshold [CPU #0 is selected to take over the process performed by CPU #3, column 7, lines 12-20 and column 8, lines 12-27].

Matoba does not disclose that the operating system controls the selecting a second CPU to receive a workload of the first CPU. Matoba instead discloses that a software application

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[parallel degree switching control software] controls the selecting a second CPU to receive a workload of the first CPU. Bealkowski discloses an operating system which controls selecting of a first processor to operate a system and selecting of second processor to operate the system when the first processor is in an abnormal operating condition [column 4, lines 5-16 and 66-67 and column 5, lines 1-4]. It would have been obvious to one of ordinary skill in the art to modify the Matoba system to enable the operating system, instead of a software application, to control the selecting a second CPU to receive a workload of the first CPU in order to simplify the system by eliminating the need for a separate software application to execute concurrently with the operating system.

Regarding claim 6, Matoba further discloses that the processors each include a thermal sensor [column 3, lines 36-40].

Regarding claim 7, Matoba further discloses that operation of the computer system is transferred from the first CPU to the second CPU upon the thermal sensor within the first CPU measuring the predetermined power threshold [CPU #0 is selected to take over the process performed by CPU #3, column 7, lines 13-41 and column 8, lines 12-27].

Regarding claims 10 and 11, Matoba further discloses determining which CPU has least recently taken over the process [column 8, lines 12-17]..

Claims 8, 9 and 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matoba, US Patent no. 5,913,068 and Bealkowski et al., US Patent no. 6,378,027 [Bealkowski], in view of Applicant's Admitted Prior Art [AAPA].

Matoba and Bealkowski, as described above, disclose a method and system for managing power in computer system. Matoba and Bealkowski do not explicitly disclose a cooling system comprising a heat pipe, heat exchanger and a cooling fan. However, the AAPA states that a microprocessor cooling system comprising a heat pipe, heat exchanger and a cooling fan is well known in the art [page 2, lines 13-20]. Therefore the advantages of using the cooling system are well known in the art and it would have been obvious to one of ordinary skill in the art to incorporate the well known cooling system disclosed by the AAPA in the system taught by Matoba and Bealkowski.

#### Response to Arguments

Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Orenstien et al., US Patent no. 6,804,632, discloses a method and system for selecting a second CPU to operate a computer system when a first CPU is operating at too high of a temperature.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul B. Yanchus whose telephone number is (571) 272-3678. The examiner can normally be reached on Mon-Thurs 8:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Yanchus August 1, 2005

> LYNNE H. BROWNE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100